



DRAG REDUCING AGENT

FLEXIN-V

GENERAL INFORMATION

FLEXIN-V is a Drag Reducing Agent (referred to as DRA) applied to increase flow rate or to reduce pressure drop in the pipelines delivering crude oil.

This product can be described as an ultra-high molecular weight polyalphaolefin dispersed in a non-aqueous base/carrier. For FLEXIN-V, vegetable oils are employed as the base/carrier. Therefore, FLEXIN-V renders much higher environment-friendliness and safety.

PHYSICAL PROPERTIES

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|---------------------------------|--|
| Form | Slurry |
| Color | Yellowish |
| Odor | Vegetable |
| Flash Point (Closed Cup) | >62°C |
| Density | 0.87~0.92 g/ml, (@20°C) |
| Freezing Point | <-15°C |
| Viscosity | <1000 mPa·s, (@25°C, 50s ⁻¹) |
| Solubility | Immiscible in water Miscible with most organic solvents |

The manufacturing process and quality control as well as provided quality control documents are strictly complied with ISO-9001 Quality Control Standard.

APPLICATION

FLEXIN-V can be used within an ambient temperature envelope ranging from 0 to +45°C. When ambient temperature is below 5°C, heating and insulation are required to maintain the temperature of the product as well as related handling equipment (pumps) above 0°C.

FLEXIN-V is usually injected / pumped into pipelines by metering pumps at the discharge side of a boosting pump. Drag reduction begins as soon as DRA starts to dissolve in the hydrocarbon being delivered. When dissolved DRA product passes through a boosting pump the polymer is broken down or worn out by the shearing exerted by the boosting pump. Consequently, a multi-stationed pipeline usually requires repeated DRA injection after each boosting pump station in order to achieve overall flow increase through the whole pipeline length.

PACKING

The standard packing for FLEXIN-V is a 1000L plastic container with protecting steel bar (IBC). Supply in other packing such ISO tanks can be offered upon request.

STORAGE AND HANDLING

FLEXIN-V will maintain stable and its potency for two years if stored in ventilated, dry place with a temperature range of +5 ~ +45°C in the tightly sealed container.

Although FLEXIN-V is more environment-friendly and safer, personal protective equipment still recommended to be worn for handling it.

Additional information concerning first-aid, firefighting measures, transport information and regulations is specified in the Material Safety Data Sheet, which is available upon request.

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